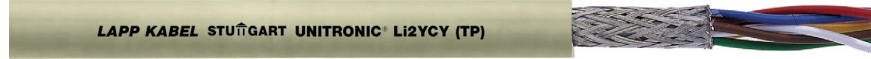




UNITRONIC® Li2YCY (TP)

Screened data transmission cable mit PE core insulation, 7-wire strands and twisted pairs

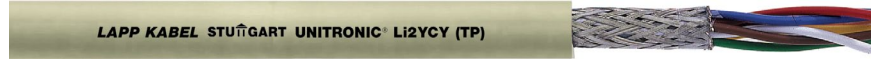


Info

- Cables for RS485/RS422

UNITRONIC® Li2YCY (TP) fine-wire

Screened data transmission cable mit PE core insulation, fine wire strands and twisted pairs



Info

- Cables for RS485/RS422

UNITRONIC® Li2YCYv (TP)

Screened data transmission cable mit PE core insulation, reinforced outer sheath and twisted pairs



Info

- Cables for RS485/RS422

Benefits

- 7-wire stranded conductor (UNITRONIC® Li2YCY (TP) and UNITRONIC® Li2YCYv (TP) can be used for Maxi TERMI-POINT® wiring
- Overall braid minimises electrical interference
- Decoupling of circuits by means of twisted-pair (TP) design (crosstalk effects)

Application range

- Particularly suitable for wiring data systems with transmission rates up to 10 Megabits per second, and is qualified for the RS422 and RS485 interfaces.
- For fixed and limited flexible installation
- Can be used in dry or damp rooms
- Signal-, control- and measuring cable, for transmission of low, sensitive signals and high bit rates
- **UNITRONIC® Li2YCYv (TP)** with reinforced black outer sheath (Yv) is suitable for indoors and outdoors, as well as direct burial in the ground

Product features

- Flame-retardant according IEC 60332-1-2

Norm references / Approvals

- Based on VDE 0812

Product make-up

UNITRONIC® Li2YCY (TP)

- 7-wire bare stranded copper conductor
- Core insulation made of polyethylene (PE)
- TP structure
- Tinned-copper braiding
- Outer sheath made of PVC
Outer sheath colour: pebble grey (RAL 7032)

UNITRONIC® Li2YCY (TP) fine-wire

- Similar to UNITRONIC® Li2YCY (TP), but with fine-wire conductor design

UNITRONIC® Li2YCYv (TP)

- Similar to UNITRONIC® Li2YCY (TP), but with reinforced outer sheath made of PVC (Yv)
- Outer sheath colour: black (RAL 9005)

Technical data



Core identification code

DIN 47100, refer to Appendix T9



Mutual capacitance

At 800 Hz: max. 60 nF/km



Peak operating voltage

(not for power applications) 250 V



Specific insulation resistance

> 5 GOhm x km



Inductivity

approx. 0.65 mH/km



Conductor stranding

UNITRONIC® Li2YCY (TP)

Stranded conductor, based on VDE 0881, 7-wire

UNITRONIC® Li2YCY (TP) fine-wire

Stranded conductor, fine-wire

UNITRONIC® Li2YCYv (TP)

Stranded conductor, based on VDE 0881, 7-wire



Minimum bending radius

Occasional flexing: 15 x outer diameter

Fixed installation: 6 x outer diameter

Short-range crosstalk attenuation

Up to 1 MHz min. 50 dB

Up to 10 MHz min. 40 dB



Test voltage

Core/core: 2000 V

Core/screen: 1000 V



Temperature range

Occasional flexing: -5°C to +70°C

Fixed installation: -40°C to +80°C



Characteristic impedance

100 ± 15 Ohm (> 1 MHz)

Article number	Number of pairs and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
UNITRONIC® Li2YCY (TP)				
0031320	2 x 2 x 0,22	6.5	24.2	59
0031321	3 x 2 x 0,22	7.1	28.6	66
0031322	4 x 2 x 0,22	7.3	34.2	78
0031323	8 x 2 x 0,22	9.1	70.0	125
0031324	10 x 2 x 0,22	10.4	76.0	143
0031335	1 x 2 x 0,34	5.8	20.0	44